SHOPPING CENTERS - COMMUNITY







AVERAGE CLASS S

OCCUPANCY DESCRIPTION: A community shopping center building is typically an intermediate group or cluster of stores (also called a plaza). It is generally a much larger and better designed project than a neighborhood center and typically supports at least one major anchor. Major anchor buildings and public pedestrian mall concourse balconies or walkways are not included in these costs.

INCLUDED IN COSTS: Architects' fees and contractors' overhead and profit. Storefronts and basic plumbing and electrical for a typical mix of tenants including service areas. Some roof, canopy or mansard overhang commensurate with the quality.

NOT INCLUDED IN COSTS: Elevators, sprinklers, fixtures, furnishings or equipment, pedestrian mall, balconies or signs.

AVERAGE TENANT COMPOSITION

The shopping center building costs found on this page represent group averages of a typical mix of tenants as listed below.

Retail – All general retail and specialty occupancies	44%
Discount – Discount, including large drug, furniture, hardware, garden, etc.	17%
Food – Market, convenience specialty, delicatessen, baker, florist, etc.	9%
Food Service – Restaurant, lounge, cafeteria, fast food outlets	9%
Commercial – Office, financial, medical, post office, etc.	7%
Personal services – Laundry, barber/beauty, health club, repair	7%
Recreational – Theater, skating, bowling, clubhouse, day care	5%
Miscellaneous – Storage and center service area including nonpublic accessways and restrooms	2%

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
	Excellent	\$103.00	Stone, face brick, fine ornamentation and displays	Best plaster, ornamental ceilings, paneling, ceramic, hardwood, carpet	Special lighting and outlets, good plumbing	Warm and cool air (zoned)
	Good	84.60	Face brick, best block/ mansard ornamentation, good displays	Plaster and paneling, ornamental finishes, carpet, plain terrazzo	Extensive lighting and outlets, good plumbing	Warm and cool air (zoned)
С	Average	67.35	Brick, block, stucco, best tilt- up, bearing or frame, adequate displays	Drywall or plaster, good tile ceilings, vinyl composition and carpet	Good lighting and outlets, standard fixtures	Package A.C.
	Low cost	55.45	Adequate fronts, block, tilt-up panels, big box center	Painted walls and roof deck, some acoustic, VCT, stained concrete	Adequate lighting and outlets, good plumbing	Package A.C.
	Excellent	101.20	Best masonry veneer, fine ornamentation and displays	Best plaster, ornamental ceilings, paneling, ceramic, hardwood, carpet	Special lighting and outlets, good plumbing	Warm and cool air (zoned)
D	Good	82.75	Masonry veneer, staggered set- backs, good fronts, mansard fascia	Plaster and paneling, ornamental finishes, carpet, plain terrazzo	Extensive lighting and outlets, good plumbing	Warm and cool air (zoned)
	Average	65.55	Good stucco or siding, masonry trim, adequate front facade	Drywall or plaster, good tile ceilings, vinyl composition and carpet	Good lighting and outlets, standard fixtures	Package A.C.
S	Average	61.25	Sandwich panels, adequate display fronts, ornamentation	Acoustic tile, vinyl composition, some carpet and interior trim	Good lighting and outlets, standard fixtures	Package A.C.
	Display basement	44.05	Plaster interior	Store finish, acoustic tile, vinyl composition tile	Average store lighting and plumbing	Forced air
CDS [†]	Storage basement	24.10	Painted interior	Painted ceiling and floors, few partitions	Exposed lighting, few outlets, drains	Space heaters
	Parking basement	26.90	Unfinished interior	Finished ceiling, concrete floor with hardener	Exposed lighting, few outlets, drains	Ventilation

For fire-resistant Type I basements, with concrete slab separation under Class C, D or S units, add \$4.35 per square foot.

SHOPPING CENTER - COMMUNITY

REFINEMENTS: On this page are the means of making major adjustments to the base costs on the previous page. Follow Steps 1 through 5 to attain final costs, adjusted for lump sums, heating and cooling, story height, floor area/perimeter ratio and locality.

ELEVATORS: A small passenger elevator with simple call system and	SPRINKLER	S: Apply to s	prinklered are	ea.				
push-button controls and two or three stops, costs \$35,250 to \$55,500.	Sq. Ft.	LOW	AVG.	GOOD	EXCL.			
For detailed costs, see Section UIP 8.	1,000	\$2.85	\$3.65	\$4.75	\$6.15			
	2,000	2.55	3.25	4.20	5.40			
	3,000	2.40	3.05	3.90	5.00			
	5,000	2.20	2.80	3.55	4.55			
	10,000	2.00	2.50	3.15	4.00			
	20,000	1.80	2.25	2.80	3.50			
	30,000	1.70	2.10	2.60	3.25			
	50,000	1.55	1.95	2.40	2.95			
	BALCONIES	: Exterior ba	Iconies gener	ally cost 1/4	to 1/2 of th			
		nal base costs per square foot of the building, or they may uted from the Segregated or Unit-in-Place costs.						

2 HEATING AND COOLING

These costs are averages of total installed cost of the entire heating or cooling installation including its prorated share of contractors' overhead and profit and architects' fees. If the heating found in the building being assessed is different from that indicated, take the difference between the costs of the two and add to or subtract from the base square foot cost. For other types or system adjustments, see Segregated costs.

	Sq. Ft.	·	Sq. Ft.		Sq. Ft.
HEATING ONLY	Costs	HEATING & COOLING	Costs	COOLING ONLY	Costs
Electric cable or baseboard	\$3.30	Package A.C. (short ductwork)	\$ 6.65	Central refrigeration (zoned)	\$6.10
Electric wall heaters	1.45	Warm and cool air (zoned)	9.10	package (short ductwork)	4.05
Forced air furnace	3.50	Hot/chilled water (zoned)	14.70	Central evaporative	2.80
Hot water, baseboard/convector	6.35	Heat pump system	7.65	Pkg. refrig \$1,250 to \$1,600 per to	n capacity
radiant floor/ceiling	6.50			Evap. coolers . \$170 to \$295 per MCFI	M capacity
Space heaters, with fan	1.60				
radiant	1.90				
Steam (including boiler)	5.40				
without boiler	4.55	Small indiv. heat pumps cost \$1,100 to	\$1,525	VENTILATION ONLY	
Wall or floor furnace	1.55	per ton of rated capacity.		Vent. (blowers/ducts)	\$1.05

STORY HEIGHT MULTIPLIERS: Mu	Itiply base cost by following multi	pliers for any variation in average	e story height.
Average Wall Height	Square Foot Multiplier	Average Wall Height	Square Foot Multiplier
8	.88	14	1.00 (base)
10	.92	15	1.02
11	.94	16	1.05
12	.95	18	1.09
13	.98	20	1.13

Average Floor Area	AVERAGE PERIMETER									Average Floor Area					
Sq. Ft./Story	100	150	200	250	300	400	500	600	800	900	1000	1200	1500	2000	Sq.Ft./Story
2,000	.98	1.08	1.18	1.28	1.38	1.57									2,000
3,000		.99	1.05	1.12	1.18	1.31									3,000
4,000			.98	1.04	1.08	1.18	1.23								4,000
5,000				.98	1.02	1.10	1.18	1.26							5,000
10,000					.90	.95	.99	1.02	1.10						10,000
15,000						.88	.91	.94	1.00	1.02					15,000
20,000						.85	.87	.90	.94	.95	.99	1.02	1.07		20,000
25,000							.86	.88	.92	.94	.96	.98	1.02	1.10	25,000
30,000								.86	.89	.91	.92	.96	.99	1.05	30,000
40,000								.83	.86	.87	.88	.91	.94	.98	40,000
50,000									.84	.85	.86	.88	.91	.96	50,000
100,000											.80	.81	.83	.86	100,000

SHOPPING CENTERS - MIXED WITH RESIDENTIAL UNITS



LOW/AVERAGE CLASS D

AVERAGE CLASS C_{MILL}

OCCUPANCY DESCRIPTION: These structures are generally two- to three-story buildings with retail store or neighborhood center use on the first level and one or more residential units on the upper levels.

INCLUDED IN COSTS: Architects' fees and contractors' overhead and profit.

NOT INCLUDED IN COSTS: Fireplaces, balconies, porches or built-in appliances.

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
	Good	\$75.25	Face brick, best block, some mansard trim, good display fronts	Above-average retail finishes, good residential units above	Good lighting and outlets, standard fixtures per unit	Package A.C.
С	Average	60.15	Brick or block, bearing or light frame, plain storefronts	Average retail mix and finishes, few extras, standard residential above	Adequate lighting and plumbing per unit	Package A.C.
	Low cost	45.30	Brick or block, bearing walls, very plain fronts, simple design	Low-cost general retail and basic residential above, no extras	Minimum lighting and plumbing per code	Forced air
CMILL	Average	70.15	Mill-type construction, heavy brick walls, trusses, good wood sash	Average retail mix and finishes, few extras, standard residential above	Adequate lighting and plumbing per unit, tiled baths	Hot water
	Good	73.65	Best siding, EIFS, masonry veneer, good trim and display fronts	Above-average retail finishes, good residential units above	Good lighting and outlets, standard fixtures per unit	Package A.C.
D	Average	58.55	Stucco, siding, plain storefronts, minimum fenestration	Average retail mix and finishes, few extras, standard residential above	Adequate lighting and plumbing per unit	Package A.C.
	Low cost	43.75	Low-cost wood or stucco, very plain, small fronts, simple design	Low-cost general retail and basic residential above, no extras	Minimum lighting and plumbing per code	Forced air

SHOPPING CENTER - MIXED WITH RESIDENTIAL UNITS

REFINEMENTS: On this page are the means of making major adjustments to the base costs on the previous page. Follow Steps 1 through 5 to attain final costs, adjusted for lump sums, heating and cooling, story height, floor area/perimeter ratio and locality.

ELEVATORS: A small passenger elevator with simple call system and	SPRINKLERS: Apply to sprinklered area.							
push-button controls and two or three stops, costs \$35,250 to \$55,500.	Sq. Ft.	LOW	AVG.	GOOD	EXCL.			
For detailed costs, see Section UIP 8.	1,000	\$2.85	\$3.65	\$4.75	\$6.15			
	2,000	2.55	3.25	4.20	5.40			
	3,000	2.40	3.05	3.90	5.00			
	4,000	2.25	2.85	3.70	4.75			
	5,000	2.20	2.80	3.55	4.55			
	10,000	2.00	2.50	3.15	4.00			
	20,000	1.80	2.25	2.80	3.50			
	30,000	1.70	2.10	2.60	3.25			
	50,000	1.55	1.95	2.40	2.95			

2 HEATING AND COOLING

These costs are averages of total installed cost of the entire heating or cooling installation including its prorated share of contractors' overhead and profit and architects' fees. If the heating found in the building being assessed is different from that indicated, take the difference between the costs of the two and add to or subtract from the base square foot cost. For other types or system adjustments, see Segregated costs.

	Sq. Ft.		Sq. Ft.		Sq. Ft.
HEATING ONLY	Costs	HEATING & COOLING	Costs	COOLING ONLY	Costs
Electric cable or baseboard	\$3.15	Package A.C. (short ductwork)	\$ 6.40	Central refrigeration (zoned)	\$5.85
Electric wall heaters	1.40	Warm and cool air (zoned)	8.75	package (short ductwork)	3.90
Forced air furnace	3.35	Hot/chilled water (zoned)	14.10	Central evaporative	2.70
Hot water, baseboard/convector	6.10	Heat pump system	7.35	Pkg. refrig \$1,250 to \$1,600 per to	n capacity
radiant floor/ceiling	6.25			Evap. coolers . \$170 to \$295 per MCF	M capacity
Space heaters, with fan	1.55				
radiant	1.80				
Steam (including boiler)	5.20				
without boiler	4.35	Small indiv. heat pumps cost \$1,100 to	\$1,525	VENTILATION ONLY	
Wall or floor furnace	1.50	per ton of rated capacity.		Vent. (blowers/ducts)	\$1.02

Average Wall Height	Square Foot Multiplier	Average Wall Height	Square Foot Multiplier
8	.92	13	1.02
10	.96	14	1.04
11	.98	15	1.06
12	1.00 (base)	16	1.09
		18	1.13

Average Floor Area						Α	VERAG	E PERIN	METER						Average Floor Area
Sq.Ft./Story	100	150	200	250	300	350	400	500	600	700	800	900	1000	1500	Sq. Ft./Story
1,000	1.18	1.38	1.57												1,000
2,000		1.08	1.18	1.28	1.38	1.48	1.57								2,000
3,000		.98	1.04	1.12	1.18	1.26	1.32								3,000
4,000			.97	1.03	1.08	1.13	1.18	1.23							4,000
5,000			.92	.97	1.01	1.05	1.10	1.18	1.27						5,000
10,000						.90	.93	.97	1.01	1.05	1.10	1.14			10,000
15,000							.86	.89	.92	.95	.98	1.01			15,000
20,000							.83	.85	.88	.90	.92	.95	.97	1.07	20,000
25,000								.83	.85	.87	.89	.91	.93	1.01	25,000
30,000									.83	.85	.86	.88	.89	.97	30,000
40,000										.82	.83	.84	.85	.91	40,000
50,000										.80	.81	.82	.83	.88	50,000

SHOPPING CENTERS - NEIGHBORHOOD



AVERAGE CLASS C



LOW-COST CLASS C

OCCUPANCY DESCRIPTION: A neighborhood shopping center building is typically a row of open stores comprising a single line of storefronts with individual service entrances to the rear. It is generally a small, one-story project which may or may not have a major anchor. Anchor buildings and public walkways are not included in the costs.

INCLUDED IN COSTS: Architects' fees and contractors' overhead and profit. Storefronts, basic plumbing and electrical for a typical mix of tenants. Some roof canopy or mansard overhang commensurate with the quality is included.

NOT INCLUDED IN COSTS: Sprinklers, furnishings, equipment, pedestrian mall concourse or signs.

AVERAGE TENANT COMPOSITION

The shopping center building costs found on this page represent group averages of a typical mix of tenants as listed below.

Retail – All general retail and specialty occupancies	25%
Discount – Discount, including large drug, furniture, hardware, garden, etc.	15%
Food – Market, convenience specialty, delicatessen, baker, florist, etc.	17%
Food Service – Restaurant, lounge, cafeteria, fast food outlets	13%
Commercial – Office, financial, medical, post office, etc.	11%
Personal services – Laundry, barber/beauty, health club, repair	14%
Recreational – Theater, skating, bowling, clubhouse, day care	3%
Miscellaneous – Storage and center service area including nonpublic accessways and restrooms	2%

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
	Good	\$72.80	Stucco or brick on block, light frame, good roof, mansard and storefronts	Drywall, some paneling, good vinyl comp. tile and acoustic tile, carpet	Good lighting and outlets per unit, small restrooms	Package A.C.
С	Average	60.70	Good block, tilt-up, bearing or light frame, plain fronts, some trim	Drywall, acoustic tile, vinyl comp. tile, some carpet and masonry partitions	Adequate lighting and outlets per unit, small restrooms	Package A.C.
	Low cost	47.75	Low-cost fronts, block, tilt-up panels, bearing walls	Painted walls, drywall or acoustic tile, asphalt tile, few partitions	Minimum lighting, outlets and plumbing per unit	Forced air
CMILL	Average	69.15	Mill-type construction, heavy brick walls, trusses, good wood sash	Plaster, vinyl comp. tile, wood, some carpet, wainscot and trim	Adequate lighting and outlets per unit, small restrooms	Hot water
	Good	71.30	Stucco or brick veneer, light frame, good roof, mansard and storefronts	Drywall, some paneling, good VCT and acoustic tile, carpet	Good lighting and outlets per unit, small restrooms	Package A.C.
D	Average	59.10	Pipe columns, web or bar joists, stucco or siding, plain fronts	Drywall, acoustic tile, vinyl composition, some carpet and trim	Adequate lighting and outlets per unit, small restrooms	Package A.C.
	Low cost	59.10	Low-cost wood or stucco, very plain, small fronts	Low-cost acoustic tile, asphalt tile, few partitions	Minimum lighting, outlets and plumbing per unit	Forced air
DPOLE	Low cost	42.80	Pole frame, metal siding, fin- ished interior, small fronts	Drywall, low-cost tile, few partitions	Minimum lighting, outlets and plumbing per unit	Forced air
S	Average	55.20	Good metal panels, some trim, plain fronts	Acoustic tile, vinyl composition, some carpet and interior trim	Adequate lighting and outlets per unit, small restrooms	Package A.C.
3	Low cost 43.00 Metal siding, finished interior, small fronts			Drywall, low-cost tile, few partitions	Minimum lighting, outlets and plumbing per unit	Forced air
CDC [‡]	Display basement	42.30	Plaster interior	Store finish, acoustic tile, vinyl composition tile	Average store lighting and plumbing	Forced air
CDS	Storage basement	23.15	Painted interior	Painted ceiling and floors, few partitions	Exposed lighting, few outlets, drains	Space heaters

For fire-resistant Type I basements, with concrete slab separation under Class C, D or S units, add \$4.35 per square foot.

SHOPPING CENTER - NEIGHBORHOOD

REFINEMENTS: On this page are the means of making major adjustments to the base costs on the previous page. Follow Steps 1 through 5 to attain final costs, adjusted for lump sums, heating and cooling, story height, floor area/perimeter ratio and locality.

ELEVATORS: A small passenger elevator with simple call system and	SPRINKLERS	: Apply to sp	orinklered are	a.	
push-button controls and two or three stops, costs \$35,250 to \$55,500.	Sq. Ft.	LOW	AVG.	GOOD	EXCL.
For detailed costs, see Section UIP 8.	1,000	\$2.85	\$3.65	\$4.75	\$6.15
	2,000	2.55	3.25	4.20	5.40
	3,000	2.40	3.05	3.90	5.00
	4,000	2.25	2.85	3.70	4.75
	5,000	2.20	2.80	3.55	4.55
	10,000	2.00	2.50	3.15	4.00
	20,000	1.80	2.25	2.80	3.50
	30,000	1.70	2.10	2.60	3.25
	50,000	1.55	1.95	2.40	2.95

2 HEATING AND COOLING

These costs are averages of total installed cost of the entire heating or cooling installation including its prorated share of contractors' overhead and profit and architects' fees. If the heating found in the building being assessed is different from that indicated, take the difference between the costs of the two and add to or subtract from the base square foot cost. For other types or system adjustments, see Segregated costs.

	Sq. Ft.		Sq. Ft.		Sq. Ft.
HEATING ONLY	Costs	HEATING & COOLING	Costs	COOLING ONLY	Costs
Electric cable or baseboard	\$3.15	Package A.C. (short ductwork)	\$ 6.40	Central refrigeration (zoned)	\$5.85
Electric wall heaters	1.40	Warm and cool air (zoned)	8.75	package (short ductwork)	3.90
Forced air furnace	3.35	Hot/chilled water (zoned)	14.10	Central evaporative	2.70
Hot water, baseboard/convector	6.10	Heat pump system	7.35	Pkg. refrig \$1,250 to \$1,600 per to	n capacity
radiant floor/ceiling	6.25			Evap. coolers . \$170 to \$295 per MCF	M capacity
Space heaters, with fan	1.55				
radiant	1.80				
Steam (including boiler)	5.20				
without boiler	4.35	Small indiv. heat pumps cost \$1,100 to	\$1,525	VENTILATION ONLY	
Wall or floor furnace	1.50	per ton of rated capacity.		Vent. (blowers/ducts)	\$1.02

3 HEIGHT REFINEMENTS

STORY HEIGHT MULTIPLIERS: Multiply base cost by following multipliers for any variation in average story height.

Average Wall Height	Square Foot Multiplier	Average Wall Height	Square Foot Multiplier
8	.92	13	1.02
10	.96	14	1.04
11	.98	15	1.06
12	1.00 (base)	16	1.09
		18	1.13

Average Floor Area						Α	VERAG	E PERIN	IETER						Average Floor Area
Sq. Ft./Story	100	150	200	250	300	350	400	500	600	700	800	900	1000	1500	Sq. Ft./Story
1,000	1.17	1.36	1.55												1,000
2,000		1.07	1.17	1.27	1.36	1.46	1.55								2,000
3,000		.98	1.04	1.11	1.17	1.24	1.30								3,000
4,000			.97	1.03	1.07	1.12	1.17	1.23							4,000
5,000			.92	.97	1.01	1.04	1.09	1.17	1.25						5,000
10,000						.91	.94	.98	1.01	1.04	1.09	1.13			10,000
15,000							.87	.90	.93	.96	.99	1.01			15,000
20,000							.84	.86	.89	.91	.93	.94	.98	1.06	20,000
25,000								.84	.86	.88	.90	.92	.94	1.01	25,000
30,000									.84	.86	.87	.89	.90	.98	30,000
40,000										.83	.84	.85	.86	.92	40,000
50,000										.81	.82	.83	.84	.89	50,000

SHOPPING CENTERS - REGIONAL



GOOD/AVERAGE CLASS C



GOOD CLASS C

OCCUPANCY DESCRIPTION: A regional shopping center building complex contains a large number of satellite stores in strips, with one or more major department store buildings as anchors. The major anchor buildings and pedestrian mall concourse walkways are not included in the cost.

INCLUDED IN COSTS: Architects' fees and contractors' overhead

and profit. Service elevators, storefronts, basic plumbing and electrical for a typical mix of tenants including all service areas. Elevators are included where designated with an asterisk (*).

NOT INCLUDED IN COSTS: Sprinklers, furnishings, special display shelving or equipment or pedestrian mall concourse or signs.

AVERAGE TENANT COMPOSITION

The shopping center building costs found on this page represent group averages of a typical mix of tenants as listed below.

Retail – All general retail and specialty occupancies	47%
Discount – Discount, including large drug, furniture, hardware, garden, etc.	19%
Food – Market, convenience specialty, delicatessen, baker, florist, etc.	8%
Food Service – Restaurant, lounge, cafeteria, fast food outlets	8%
Commercial – Office, financial, medical, post office, etc.	4%
Personal services – Laundry, barber/beauty, health club, repair	3%
Recreational – Theater, skating, bowling, clubhouse, day care	4%
Miscellaneous – Storage and center service area including nonpublic accessways and restrooms	7%

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
	Excellent	\$141.30	Stone, face brick, best metal and glass, display front	Best plaster and drywall, ornamental ceilings, paneling, carpet, hardwood	*Special lighting, many good outlets, plumbing and restrooms	Hot and chilled water (zoned)
A-B	Good	115.10	Brick, concrete, or metal and glass, good displays	Good partitions, acoustic ceilings, terrazzo, carpet, vinyl tile	*Good lighting and outlets, adequate employees' restrooms	Warm and cool air (zoned)
	Storage basement	41.45	Painted interior walls	Painted floor and ceilings, adequate partitioning, service tunnel	Exposed lighting, few outlets, drains, restrooms	Space heaters
	Excellent	121.30	Face brick, stone, staggered setbacks, fine display fronts	Plaster/drywall, ornamental ceilings, paneling, ceramic, carpet, hardwood	*Special lighting and outlets, good plumbing and restrooms	Hot and chilled water (zoned)
С	Good	96.10	Steel frame, brick, best block, stucco, good displays	Good partitions, acoustic ceilings, terrazzo, carpet, vinyl tile	*Good lighting and outlets, adequate employees' restrooms	Warm and cool air (zoned)
	Average	77.70	Steel columns, web or bar joists, brick, block, tilt-up adequate fronts	Acoustic ceilings, vinyl composition, some carpet and masonry partitions	*Adequate lighting and plumbing, minimum service facilities	Package A.C.
	Excellent	119.20	Brick veener EIFS, staggered setbacks, fine display fronts	Plaster/drywall, ornamental ceilings, paneling, ceramic, carpet, hardwood	*Special lighting and outlets, good plumbing and restrooms	Hot and chilled water (zoned)
D	Good	94.00	Steel or glulam frame, best stucco or siding, good display fronts	Good partitions, acoustic ceilings, terrazzo, carpet, vinyl tile	*Good lighting and outlets, adequate employees' restrooms	Warm and cool air (zoned)
	Average	75.70	Wood frame or steel columns, masonry trim, adequate fronts	Plaster or drywall, acoustic tile, vinyl composition, some carpet and trim	*Adequate lighting and plumbing, minimum service facilities	Package A.C.
S	Average	71.50	Sandwich panels, metal and glass, good ornamentation, displays	Good acoustic tile, vinyl composition, some carpet and masonry partitions	*Adequate lighting and plumbing, minimum service facilities	Package A.C.
CDS [†]	Storage basement	27.50	Painted interior walls	Painted ceiling and floors, adequate partitions, service tunnel	Exposed lighting, few outlets, drains, restrooms	Space heaters

[†]For fire-resistant Type I basements, with concrete slab separation under Class C, D or S units, add \$4.35 per square foot. For basement stores, use 80% of comparable above ground center cost.

SHOPPING CENTERS - REGIONAL

REFINEMENTS: On this page are the means of making major adjustments to the base costs on the previous page. Follow Steps 1 through 5 to attain final costs, adjusted for lump sums, heating and cooling, story height, floor area/perimeter ratio and locality.

with an actorial /*	مصلماني ما المالي	dar aanaidaratian baa na	lavatara	C F4	0 54 1.004		COOD	EXCL
with an asterisk ("). If the building	under consideration has no	elevators,	Sq. Ft.	LOW	AVG.	GOOD	EX
deduct the following	ng from the bas	se costs so marked. For detai	led costs	5,000	\$2.20	\$2.80	\$3.55	\$4
see Section UIP 8				10,000	2.00	2.50	3.15	4
Classes A/B	Sq. Ft.	Classes C/D/S	Sq. Ft.	20,000	1.80	2.25	2.80	3
	Costs		Costs	30,000	1.70	2.10	2.60	3
Excellent	\$1.05	Excellent	\$.90	50,000	1.55	1.95	2.40	2
Good	90	Good	.80	75,000	1.45	1.80	2.20	2
		Average	.70	100,000	1.40	1.70	2.10	2.
				300,000	1.20	1.45	1.75	2
				500.000	1.10	1.35	1.60	1

ELEVATOR STOPS: For basement stops, add \$4,225 to \$6,425 per stop.

BALCONIES: Exterior balconies generally cost 1/3 to 1/2 of the final base cost per square foot of the building or they may be computed from the Segregated or Unit-in-Place costs.

2 HEATING AND COOLING

These costs are averages of total installed cost of the entire heating or cooling installation including its prorated share of contractors' overhead and profit and architects' fees. If the heating found in the building being assessed is different from that indicated, take the difference between the costs of the two and add to or subtract from the base square foot cost. For other types or system adjustments, see Segregated costs.

	Sq. Ft.		Sq. Ft.		Sq. Ft.
HEATING ONLY	Costs	HEATING & COOLING	Costs	COOLING ONLY	Costs
Electric cable or baseboard	\$3.40	Package A.C. (short ductwork)	\$ 6.95	Central refrigeration (zoned)	\$6.35
Electric wall heaters	1.50	Warm and cool air (zoned)	9.50	package (short ductwork)	4.25
Forced air furnace	3.65	Hot/chilled water (zoned)	15.30	Central evaporative	2.95
Hot water, baseboard/convector	6.60	Heat pump system	7.95	Pkg. refrig \$1,250 to \$1,600 per to	n capacity
radiant floor/ceiling	6.80			Evap. coolers . \$170 to \$295 per MCFI	M capacity
Space heaters, with fan	1.70				
radiant	1.95				
Steam (including boiler)	5.65				
without boiler	4.70	Small indiv. heat pumps cost \$1,100 to	\$1,525	VENTILATION ONLY	
Wall or floor furnace	1.65	per ton of rated capacity.		Vent. (blowers/ducts)	\$1.10

HEIGHT REFINEMENTS

MULTISTORY BUILDINGS: Add .5% (1/2%) for each story over three, above ground, to all base costs. **STORY HEIGHT MULTIPLIERS:** Multiply base cost by following multipliers for any variation in average story height.

Average Wall Height	Square Foot Multiplier	Average Wall Height	Square Foot Multiplier
12	.92	16	1.00 (base)
13	.94	18	1.04
14	.95	20	1.07
15	.97	22	1.11
		24	1.16

Average						Α	VERAG	E PERII	METER						Average
Floor Area Sq.Ft./Story	400	450	500	550	600	800	1000	1200	1500	2000	2500	3000	5000	7000	Floor Area Sq.Ft./Stor
10,000	.92	.95	.97	.99	1.01	1.10									10,000
15,000	.87	.88	.89	.91	.92	.98	1.04								15,000
20,000			.86	.87	.88	.92	.97	1.01							20,000
25,000				.84	.85	.89	.92	.96							25,000
30,000					.84	.87	.89	.92	.97						30,000
50,000					.80	.82	.84	.85	.88	.92					50,000
75,000						.79	.81	.82	.84	.87	.89				75,000
100,000							.79	.80	.81	.83	.86	.88			100,000
150,000								.77	.78	.80	.82	.83	.89		150,000
300,000									.75	.76	.77	.78	.82	.85	300,000
400,000										.75	.76	.77	.80	.82	400,000
500,000										.74	.75	.76	.78	.80	500,000

SHOPPING CENTERS - MALL CONCOURSES



AVERAGE CLASS D

OCCUPANCY DESCRIPTION: The mall costs are for the public pedestrian concourse areas only, exclusive of open well areas, and include stairs and ramps as necessary. This may consist of a single access way or it may include a number of subsidiary approach routes connecting to the main shopping corridor. These malls are limited to three types: open, covered and enclosed.

Open mall costs are for an open air pedestrian concourse, generally referred to as an arcade or courtyard.

Covered malls are covered but open to the air pedestrian concourses. Costs include floor and roof finishes and supports commensurate with the quality of the center buildings. Apply costs to covered areas only.

Enclosed malls are completely enclosed, climatized pedestrian concourses in which the enclosing walls are part of the shopping



GOOD CLASS S

center buildings. One-, two- and three-level malls are included in the averages. Costs include floor, ceiling, roof and entryway finishes commensurate with the quality of the anchor buildings.

INCLUDED IN COSTS: Architects' fees and contractors' overhead and profit. Typical paving, lighting and permanent focal elements such as built-in seating, planters, center court wells, stages and fountains commensurate with the quality of the center buildings. Allowances for escalators and elevators are included where designated with an asterisk (*).

NOT INCLUDED IN COSTS: Sprinklers, all kiosks, landscaping, skating rinks, and monumental sculpture and other individual works of art.

SQUARE FOOT COST TABLE

OPEN MALLS

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
	Excellent	\$37.65	Themed pathways, courtyard, varied elevations and finishes	Heavily rock and water scaped, open pavillion, amphitheater	Best luminaires, good streams, waterfalls, ponds and fountains	None
	Very Good	25.70	Best pavers, wood decks, varied patterns and elevations stage of display areas		High-quality luminaires, good reflection ponds, fountains	None
CDS	Good 17.55 Good pavers, decorative concrete		Good pavers, decorative concrete	Good planters, some seating and display areas	Good outdoor lighting and fixtures, small fountains	None
	Average	12.00	Patterned concrete, some pavers	Adequate raised planters and benches	Adequate area lighting and fixtures	None
	Low cost	8.20	Concrete, some decorative finish	Some low-cost planters, benches, and tree grates	Minimum lighting and fixtures	None

COVERED MALLS

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
	Excellent	\$40.55	Completely roofed, compara- ble to average enclosed mall	Exposed deck, joists, carpet, vinyl, wood, plain seating and planters	Adequate lighting & plumbing, standard fixtures, few outlets	None
CDS	Good	34.25	Substantial structure, good mansard, finished soffit	Pavers, terrazzo, best ornamenta concrete	High-quality illumination and fixtures	None
CDS	Average	28.90	Metal or wood canopies, decorative supports	Terrazzo, decorative concrete	Good illumination and fixtures	None
	Low cost	24.40	Light trellises or awnings, plain supports	Patterned concrete, some plain terrazzo or pavers	Adequate illumination and fixtures	None

ENCLOSED MALLS

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
	Excellent	\$103.40	Fine fronts, metal and glass, usually part of a building	Ornamental ceilings, best pavers, terrazzo, ceramic tiled finishes	*Special lighting fixtures and effects, tiled restrooms	Complete H.V.A.C.
A-B	Good	81.30	Good entries, brick or concrete, usually part of a bldg	Plaster or Tiled celling, carpet, terrazzo, some ornamentation	*Good lighting and outlets, public restrooms and fixtures	Complete H.V.A.C.
A-D	Average	64.40	Built-up roof, skylights ade- quate entries	Exposed deck, joists, carpet, vinyl, pavers, plain seating and food couorts	*Adequate lighting & plumbing, standard fixtures, few outlets.	Complete H.V.A.C.
	Low cost	45.05	Plain entry, exposed roof deck	Vinyl composition, no extras	Minimum lighting and plumbing	Complete H.V.A.C.
	Excellent	93.00	High-cost roof, large arched entries and domed skylights	Best plaster, vaulted ceiling, pavers, terrazzo, tiled seating, food cluster	*Special lighting fixtures, deluxe restrooms & fixtures, fountains	Complete H.V.A.C
CDS	Good	70.15	Good parapets, skylights and storefront entryways	Plaster or drywall, plain pavers or ter- razzo, center court wells	*Good indirect lighting, public rest- rooms, small fountains	Complete H.V.A.C.
CD3	Average	53.15	Light built-up roof, small sky- lights and entries	Exposed deck, joists, carpet, vinyl, wood, plain seating and planters	*Adequate lighting & plumbing, standard fixtures, few outlets.	Complete H.V.A.C.
	Low cost	34.65	Plain entry, exposed roof deck	Vinyl composition, no extras	Minimum lighting and plumbing	Complete H.V.A.C.

SHOPPING CENTERS - MALL CONCOURSES

REFINEMENTS: On this page are the means of making major adjustments to the base costs on the previous page. Follow Steps 1 through 5 to attain final costs, adjusted for lump sums, heating and cooling, story height, floor area/perimeter ratio and locality.

ELEVATORS: Malls whose base	e costs include elevators are mar	ked SI	PRINKLER	S: Apply to	sprinklered ar	ea.	
with an asterisk (*). If the mall u	nder consideration has no elevate	ors,	Sq. Ft.	ĽÓŴ	AVG.	GOOD	EXCL
	base costs so marked. For detail	iled	2,500	\$2.45	\$3.10	\$4.00	\$5.18
costs see Section UIP 8.			5,000	2.20	2.80	3.55	4.5
Classes A/B Sq. Ft.		ı. Ft.	10,000	1.85	2.50	3.15	4.0
Costs		osts	15,000	1.80	2.35	2.95	3.7
Excellent	Excellent \$		20,000	1.70	2.25 2.10	2.80 2.60	3.5
Good 7.25 Average 6.85		6.75 6.35	30,000 50,000	1.55 1.45	1.95	2.40	3.2 2.9
Average 0.03	Average	0.55	75,000	1.40	1.80	2.20	2.7
			100,000	1.25	1.70	2.10	2.6
			150,000	1.30	1.60	1.95	2.4
		:	200,000	1.25	1.55	1.85	2.2
These costs are averages of total and profit and architects' fees. If	, COOLING AND AIR CONDITIO al installed cost of the entire heat the heating found in the building to subtract from the base square	ing or cooling ins being assessed is	s different f	rom that indi	cated, take th	e difference	betwee
COMPLETE H.V.A.C.				o e. eyete	aajaaamama	, 000 00g.0	
Classes A/B	Sq. F Cost		פוטוס				Sq. Co
Eveellent							
	·						
	10.1						
Average		•					
Low-cost							
HEIGHT REFINEMENTS NOT APPLICABLE							
NOT APPLICABLE							
	JIERS						
NOT APPLICABLE	JIERS						
NOT APPLICABLE AREA/PERIMETER MULTIPLE	LIERS						
NOT APPLICABLE AREA/PERIMETER MULTIPLE	LIERS						
NOT APPLICABLE AREA/PERIMETER MULTIPLE	JIERS						
NOT APPLICABLE AREA/PERIMETER MULTIPLE	IERS						
NOT APPLICABLE AREA/PERIMETER MULTIPLE	LIERS						
NOT APPLICABLE AREA/PERIMETER MULTIPLE	LIERS						
NOT APPLICABLE AREA/PERIMETER MULTIPLE	LIERS						
NOT APPLICABLE AREA/PERIMETER MULTIPLE	JERS						
NOT APPLICABLE AREA/PERIMETER MULTIPLE	JERS						
NOT APPLICABLE AREA/PERIMETER MULTIPLE	JERS						
NOT APPLICABLE AREA/PERIMETER MULTIPLE	JERS						
NOT APPLICABLE AREA/PERIMETER MULTIPLE	LIERS						
NOT APPLICABLE AREA/PERIMETER MULTIPLE	LIERS						
NOT APPLICABLE AREA/PERIMETER MULTIPLE	IERS						

SHOWER ROOM BUILDINGS

OCCUPANCY DESCRIPTION: These buildings are used to provide shower and dressing facilities. Interior walls are paint-enameled drywall or plaster, and the floors are concrete. There is adequate lighting and plumbing. Better qualities include saunas and/or steam rooms and finished offices commensurate with the quality.

INCLUDED IN COSTS: Built-in lockers, Architects' fees and contractors' overhead and profit.

NOT INCLUDED IN COSTS: Elevators, sprinklers, therapy or recreational equipment.

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
A-B	Average	\$113.60	Brick, concrete or metal panels, formed concrete	Finished interior, good tile or glazed surfaces, some extra facilities	Good lighting and plumbing, some extras	Wall furnace
	Excellent	155.20	Stone, rustic trim or block	Good finish or under 1,000 sq. ft.	High-cost fixtures	Forced air
	Good	116.85	Decorative block and trim, heavy structure	Finished interior, good tile or glazed surfaces, extra facilities	Good lighting and plumbing, extra outlets and fixtures, sauna	Wall furnace
С	Average	90.10	Steel frame or bearing walls, brick, block, concrete panels, some trim	Enameled walls, some wainscot, plaster ceiling, good concrete floor	Adequate lighting and plumbing, showers, lockers	Space heaters
	Low cost	69.70	Block, light roof, very plain	Low-cost finishes, few partitions, sealed concrete	Minimum lighting and plumbing, showers, dressing stalls	Space heaters
	Cheap	49.65	Low-cost block, top ventilation	Light slab, unfin. interior, camp facility	Minimum lights, fixtures and drains	None
	Good	112.10	Steel or Glulam frame and joists, brick veneer, best stucco	Finished interior, good tile or glazed surfaces, extra facilities	Good lighting and plumbing, extra outlets and fixtures, sauna	Wall furnace
D	Average	85.10	Wood frame or pipe columns, good stucco or siding, little trim	Plaster, enameled walls, some wainscot, good concrete floors	Adequate lighting and plumbing, showers, lockers	Space heaters
	Low cost	64.85	Low-cost stucco or siding	Low-cost finishes, few partitions, sealed concrete	Minimum lighting and plumbing, showers, dressing stalls	Space heaters
	Cheap	44.95	Box frame, plywood, boards, top ventilation	Light slab, unfinished interior, camp facility	Minimum lights and fixtures, few drains	None
D	Average	77.85	Pole frame, good metal panels, finished inside, little trim	Enameled walls, some wainscot, plaster ceiling, good concrete floor	Adequate lighting and plumbing, showers, lockers	Space heaters
DPOLE	Low cost	61.35	Pole frame, metal siding, finished interior	Low-cost finishes, few partitions, sealed concrete	Minimum lighting and plumbing, showers, dressing stalls	Space heaters
s	Average	77.80	Pre-engineered, finished interior, insulation, little trim	Enameled walls, some wainscot, plaster ceiling, good concrete floor	Adequate lighting and plumbing, showers, lockers	Space heaters
3	Low cost	61.05	Pre-engineered, metal siding, finished interior	Low-cost finishes, few partitions, sealed concrete	Minimum lighting and plumbing, showers, dressing stalls	Space heaters

SHOWER ROOM BUILDING

REFINEMENTS: On this page are the means of making major adjustments to the base costs on the previous page. Follow Steps 1 through 5 to attain final costs, adjusted for lump sums, heating and cooling, story height, floor area/perimeter ratio and locality.

SPRINKLERS: Apply to sprinklered area.						
Sq. Ft.	LOW	AVG.	GOOD	EXCL.		
1,000	\$2.95	\$3.75	\$4.95	\$6.35		
2,000	2.85	3.65	4.70	6.05		
5,000	2.45	3.15	4.00	5.05		
10,000	2.20	2.80	3.50	4.45		
15,000	2.05	2.60	3.25	4.10		
20,000	2.00	2.50	3.10	3.90		

7 HEATING AND COOLING

12

These costs are averages of total installed cost of the entire heating or cooling installation including its prorated share of Contractors' overhead and profit and Architects' fees. If the heating found in the building being assessed is different from that indicated, take the difference between the costs of the two and add to or subtract from the base square foot cost. For other types or system adjustments, see Segregated costs.

HEATING ONLY	Sq. Ft. Costs	HEATING & COOLING	Sq. Ft. Costs	COOLING ONLY	Sq. Ft. Costs
Electric cable or baseboard	\$5.35	Package A.C. (short ductwork)	\$ 8.30	Central refrigeration (zoned)	7.15
Electric wall heaters	1.95	Warm and cool air (zoned)	13.80	package (short ductwork)	5.05
Forced air furnace	6.00	Hot/chilled water (zoned)	20.65	Central evaporative	3.10
Hot water	9.35	Heat pump system	11.00	Pkg. refrig \$1,335 to \$1,635 per tor	capacity
Space heaters, with fan	1.95			Evap. coolers \$200 to \$350 per MCFN	/I capacity
radiant	2.30				
Steam (including boiler)	8.75				
without boiler	7.70	Small indiv. heat pumps cost \$1,100 to	\$1,475	VENTILATION ONLY	
Wall or floor furnace	2.10	per ton of rated capacity.		Vent. (blowers/ducts)	\$1.65

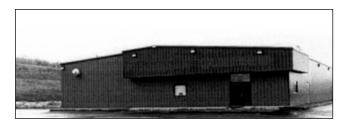
HEIGHT REFINEMENTS MULTISTORY BUILDINGS: Add .5% (1/2%) for each story over three, above ground, to all base costs. STORY HEIGHT MULTIPLIERS: Multiply base cost by following multipliers for any variation in average story height. Average Wall Height **Square Foot Multiplier Square Foot Multiplier** Average Wall Height 8 .96 13 1.06 9 .98 14 1.07 10 1.00 (base) 15 1 09 11 1.02 16 1.11

1.04

Average Floor Area						AVE	RAGE I	PERIME	TER						Average Floor Area
Sq. Ft./Story	100	125	150	175	200	250	300	400	500	600	700	800	1000	1200	Sq. Ft./Story
500	1.30	1.41	1.52	1.63	1.73										1,000
1,000	1.08	1.13	1.19	1.24	1.30	1.41									2,000
1,500	1.01	1.04	1.08	1.12	1.15	1.23									3,000
2,000		1.00	1.02	1.05	1.08	1.13	1.19								4,000
3,000			.97	.99	1.01	1.04	1.08	1.15							5,000
4,000				.96	.97	1.00	1.02	1.08	1.13						6,000
5,000					.95	.97	.99	1.04	1.08	1.12					7,000
6,000					.93	.95	.97	1.01	1.04	1.08	1.12				8,000
7,000						.94	.96	.98	1.02	1.05	1.08	1.11			9,000
8,000						.93	.94	.97	1.00	1.02	1.05	1.08	1.13		10,000
9,000							.93	.95	.97	.99	1.01	1.04	1.08	1.12	12,000
12,000							.92	.93	.96	.97	.99	1.01	1.04	1.08	15,000

NOTE: For larger buildings, enter the table by taking half the area and half the perimeter. For very small structures, reverse the process (i.e., for a 10' x 10' or 100-square-foot building, multiply both the area and the perimeter by a factor of 5 to enter the table where the wall-to-floor ratio remains the same at 4:1 with a 10' height).

SKATING RINKS



LOW-COST/AVERAGE CLASS S

OCCUPANCY DESCRIPTION: Large, open structures which include areas for ice skating or roller skating, lobby, restrooms and equipment storage. Roller skating rinks include the basic skating surface. Ice skating rinks include the basic floor structure, but not the ice making equipment. For ice skating, the cost must be adjusted to account for the ice surface.

Lounge, snack bar, locker or shower room facilities are commensurate with the quality as indicated.



AVERAGE CLASS C/S

INCLUDED IN COSTS: Architects' fees and contractors' overhead and profit. Suitable office and gathering and/or lounge areas.

NOT INCLUDED IN COSTS: Elevators, sprinklers, snack bar equipment, seating, lockers or ice making equipment or surface.

SQUARE FOOT COST TABLE

CLASS	TYPE	COST/ SQ. FT.	EXTERIOR WALLS	INTERIOR FINISH	LIGHTING, PLUMBING AND MECHANICAL	HEAT
	Good	\$85.70	Brick or concrete, good	Acoustic treatment, good viewers'	Good lighting and restrooms,	Package
С			entrance	seating, snack bar and locker rooms	some entertainment-type lighting	A.C.
0	Average	63.90	Block or brick, little trim	Gypsum board, acoustic tile	Adequate lighting and plumbing	Package A.C.
	Low cost	44.85	Block or tilt-up	Little or none, no dressing rooms	Minimum lighting and plumbing	Forced air
	Good	82.45	Brick veneer, best siding or	Acoustic treatment, good viewers'	Good lighting and restrooms,	Package
D			stucco, trim, good entrance	seating, snack bar and locker rooms	some entertainment lighting	A.C.
ן ט	Average	60.70	Stucco or siding, some trim	Gypsum board, acoustic tile	Adequate lighting and plumbing	Package A.C.
	Low cost	41.95	Stucco or siding, very plain	Little or none, no dressing rooms	Minimum lighting and plumbing	Forced air
DPOLE	Low cost	38.55	Pole frame, metal, finished	No dressing rooms or showers	Minimum lighting and plumbing	Forced air
DFOLL			inside			
	Good	78.95	Insulated metal sandwich	Acoustic treatment, good viewers'	Good lighting and restrooms,	Package
			panels, steel frame, good	seating, snack bar and locker	some entertainment-type lighting	A.C.
			entrance	rooms		
S	Average	57.55	Good metal panels and roof,	Some gypsum board and acoustic	Adequate lighting and	Package
			some interior finish, trim	tile, few extras	plumbing	A.C.
	Low cost	39.20	Single wall, finished interior	Little or none, no dressing rooms	Minimum lighting and plumbing	Forced air
CDS	Mezzanine,	16.60	Not included	Open, finished floors and soffit,	Average lighting, no plumbing	In building
CDS	open			add for spectator seating		cost

MEZZANINES: Do not use story height or area/perimeter multipliers with mezzanine costs.

ICE SKATING RINKS

Artificially made ice rinks are manufactured in various forms, but all include pumps, compressors, refrigerant fluids and freezing (piping) systems.

Refrigeration piping system may be found:

- 1. Laid on bare earth.
- On bare earth with a concrete curbing.
- 3. On a concrete slab with a curbing.
- 4. In a formed concrete slab.

Basic mechanical equipment, pumps, compressors, fluid and freezing (piping) installed in a standard-size hockey rink:

(85' x 200') \$15.25 to \$21.35 per sq. ft. of frozen area Smaller rinks tend to be more expensive, stage-size rinks, etc.

\$33.55 to \$47.45 per sq. ft. of frozen area

Additive costs, per square foot of rink:	COST RANGE
Excavation	\$.29 - \$.60
Subsoil heating	1.33 - 1.79
Sand floor	.65 - 1.09
Wood sleepers	.40 – .57
Gravel base, 4"	.41 – .71
Plastic water barrier	.30 – .48
Insulation, rigid, 2"	1.33 - 2.13
Concrete slab, 5" – 6"	3.23 - 4.27
Concrete curbing	.34 – .67
Dehumidifier, per unit	.79 – 1.10
Side boards, wood frame	3.10 - 4.60
metal frame	2.80 - 6.10
add for spectator protection, clear shield	1.95 - 2.40
chain link	.40 – .85

SKATING RINKS

REFINEMENTS: On this page are the means of making major adjustments to the base costs on the previous page. Follow Steps 1 through 5 to attain final costs, adjusted for lump sums, heating and cooling, story height, floor area/perimeter ratio and locality.

ELEVATORS : A small passer	SPRINKLERS: Apply to sprinklered area.					
and push-button control, and	nd push-button control, and two or three stops, costs \$35,250 to \$55,500.				GOOD	EXCL.
					\$3.90	\$4.95
	COST RANGE	10,000	2.20	2.75	3.45	4.35
LOCKERS: per opening,	single tier \$95 – \$195	15,000	2.10	2.60	3.25	4.00
	double 65 – 120	20,000	2.00	2.45	3.05	3.80
	triple 45 – 100	30,000	1.85	2.30	2.85	3.55
	box type	40,000	1.80	2.20	2.70	3.35
		60,000	1.70	2.05	2.55	3.10
ICE SKATING RINKS: See S	Section UIP 17 for ice-making equipment.	80,000	1.60	1.95	2.40	2.95
		100,000	1.55	1.90	2.30	2.80

2 HEATING AND COOLING

These costs are averages of total installed cost of the entire heating or cooling installation including its prorated share of contractors' overhead and profit and architects' fees. If the heating found in the building being assessed is different from that indicated, take the difference between the costs of the two and add to or subtract from the base square foot cost. For other types or system adjustments, see Segregated costs.

	Sq. Ft.	S	q. Ft.		Sq. Ft.
HEATING ONLY	Costs	HEATING & COOLING	Costs	COOLING ONLY	Costs
Electric cable or baseboard	\$4.60	Package A.C. (short ductwork) \$	9.20	Central refrigeration (zoned)	\$7.30
Electric wall heaters	1.85	Warm and cool air (zoned)	13.90	package (short ductwork)	5.20
Forced air furnace	5.65	Hot/chilled water (zoned)	20.35	Central evaporative	3.15
Hot water	8.55	Heat pump system	11.05	Pkg. refrig \$1,375 to \$1,760 per tor	capacity
Space heaters, with fan	1.80			Evap. coolers . \$205 to \$345 per MCFN	/I capacity
radiant	2.20				
Steam (including boiler)	7.80				
without boiler	6.85	Small indiv. heat pumps cost \$1,225 to \$	\$1,650	VENTILATION ONLY	
Wall or floor furnace	2.05	per ton of rated capacity.		Vent. (blowers/ducts)	\$1.60

3 HEIGHT REFINEMENTS

STORY HEIGHT MULTIPLIERS: Multiply base cost by following multipliers for any variation in average story height.

Average Wall Height	Square Foot Multiplier	Average Wall Height	Square Foot Multiplier
12	.89	20	1.11
14	.95	22	1.16
16	1.00 (base)	24	1.21
18	1.05	28	1.31

4	Average Floor Area	AVERAGE PERIMETER														Average Floor Area
	Sq. Ft./Story	250	300	350	400	450	500	550	600	700	800	900	1000	1200	1500	Sq. Ft./Story
	5,000	1.03	1.05	1.07	1.09	1.11	1.15	1.19								5,000
	8,000		1.00	1.02	1.03	1.04	1.05	1.07	1.08	1.11						10,000
	10,000			1.00	1.01	1.02	1.03	1.04	1.05	1.07	1.09					10,000
	12,000			.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06					12,000
	15,000				.98	.99	1.00	1.00	1.01	1.02	1.04	1.05				15,000
	18,000					.97	.98	.99	1.00	1.01	1.02	1.03	1.04			18,000
	20,000						.97	.98	.99	1.00	1.01	1.02	1.03	1.05		20,000
	25,000						.95	.96	.97	.98	.99	1.00	1.01	1.03		25,000
	30,000						.94	.95	.96	.97	.98	.99	1.00	1.01	1.03	30,000
	40,000								.94	.95	.96	.97	.98	.99	1.00	40,000
	50,000								.93	.94	.95	.96	.97	.98	.99	50,000
	60,000										.93	.94	.95	.96	.98	60,000